


Engineer: Chris Samios	Date: 3/21/03	 <b>JPS Communications</b> 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 3/21/03				
Approved: CTS	Date: 3/21/03	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 4/16/04	Size: A	Dwg. #: <b>5961-291185-APP</b>	Rev: <b>A</b>	Sheet: 1            Of    1

**APPLIES TO:**                      Motorola/Nextel Model i550plus, i700, i1000plus, and i2000  
Iden Cellphones (Hands-free Connection)

**RADIO MODIFICATIONS:**    None required.

**RADIO PROGRAMMING:**    None required.

**RADIO CONTROLS:**

1.        Operator intervention is required to place and receive calls.

**CABLING:**

ACU-1000 Interface Top Level Assembly	JPS P/N 5961-291184	(Model i550 and i700 - Discontinued)
ACU-1000 Interface Cable	JPS P/N 5961-291169-00	
Nextel Hands-Free Kit	JPS P/N 5961-291181	
ACU-T Interface Top Level Assembly	JPS P/N 5961-281184	(Model i550 and i700 - Discontinued)
ACU-T Interface Cable	JPS P/N 5961-281169-00	
Nextel Hands-Free Kit	JPS P/N 5961-291181	
ACU-1000 Interface Top Level Assembly	JPS P/N 5961-291185	(Model i1000 and i2000)
ACU-1000 Interface Cable	JPS P/N 5961-291169-00	
Nextel Hands-Free Kit	JPS P/N 5961-291182	
ACU-T Interface Top Level Assembly	JPS P/N 5961-281185	(Model i1000 and i2000)
ACU-T Interface Cable	JPS P/N 5961-281169-00	
Nextel Hands-Free Kit	JPS P/N 5961-291182	

**DSP PROGRAMMING:**

RX Level	3*	0dBm*
TX Level	3	-12dBm
Squelch Type	VOX*	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	4	800 ms
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	7	3 sec
All Others	As needed	

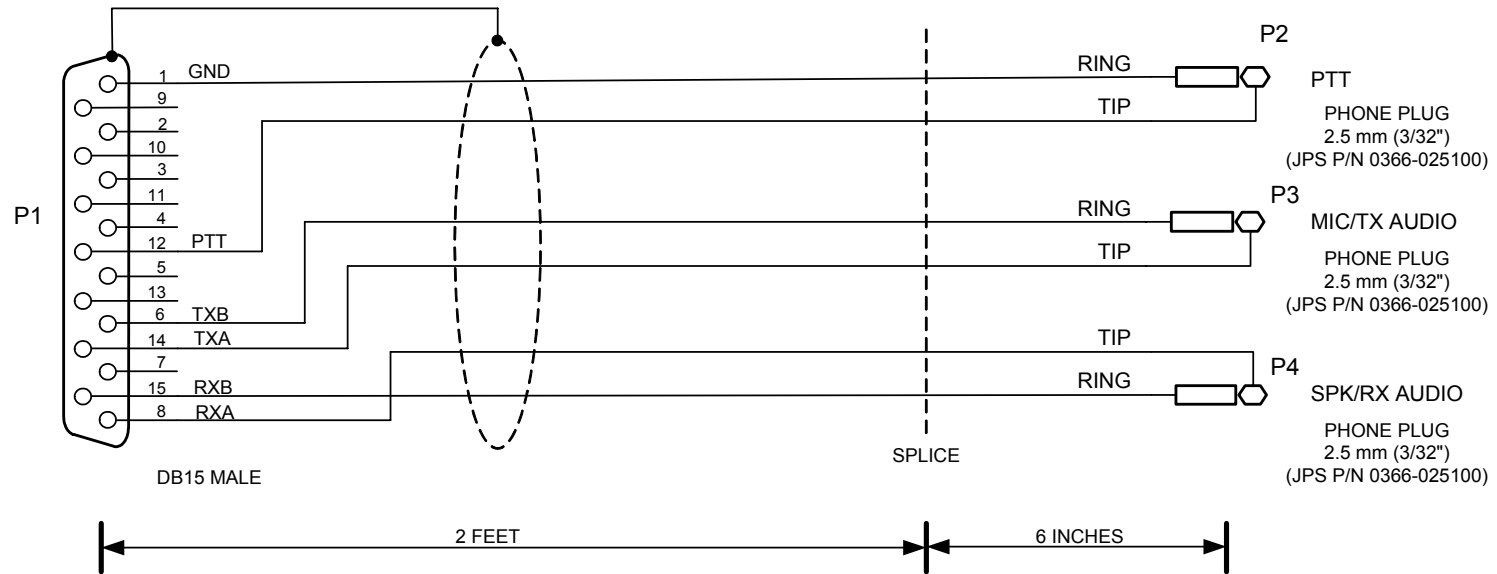
(\* Indicates Default Value)

**NOTES:**

# PURCHASED PART

Rev	ECO	Date
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CONNECT TO NEXTEL (MOTOROLA) HANDS- FREE KIT.



NOTES: USE SHIELDED CABLE. CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.

PLACE ALL SPLICES INSIDE PLASTIC ENCLOSURE (JPS P/N 5961-271600).

LABEL ALL CONNECTORS WITH P(NUMBER) AND FUNCTION, (i.e. PTT, MIC, SPK).

INCLUDED AS PART OF TOP ASSEMBLY JPS P/N 5961-291185.

## USED WITH:

MOTOROLA/NEXTEL i550plus CELLPHONE  
MOTOROLA/NEXTEL i700 CELLPHONE  
MOTOROLA/NEXTEL i1000plus CELLPHONE  
MOTOROLA/NEXTEL i2000 CELLPHONE

THE TOP ASSEMBLY P/N BELOW INCLUDES BOTH HANDS-FREE KIT AND CABLE:  
JPS P/N 5961-291184 (i550, i700) - DISCONTINUED.  
JPS P/N 5961-291185 (i1000, i2000).

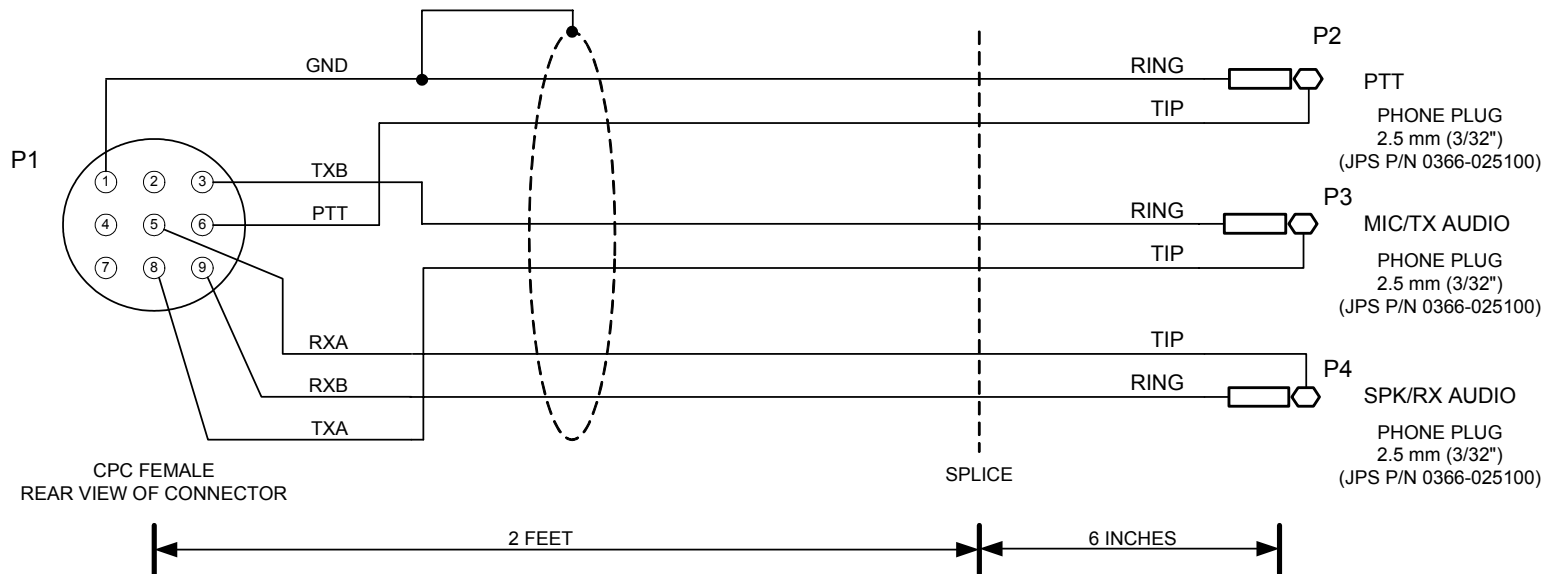
Designed By:	CTS	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, ACU-1000 TO NEXTEL i550 CELLPHONE		
Checked By:	JAC	Size A	Document Number <b>5961-291169-00</b>	Rev C1
		Issued Date	NOVEMBER 11, 2003	Sheet <u>1</u> of <u>1</u>

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## PURCHASED PART

USE MOLDED CABLE  
(JPS P/N 5961-261003-00)

CONNECT TO NEXTEL (MOTOROLA) HANDS- FREE KIT.



NOTES: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

PLACE ALL SPLICES INSIDE PLASTIC ENCLOSURE (JPS P/N 5961-271600).

LABEL ALL CONNECTORS WITH P(NUMBER) AND FUNCTION, (i.e. PTT, MIC, SPK).

INCLUDED AS PART OF TOP ASSEMBLY JPS P/N 5961-281185.

### USED WITH:

MOTOROLA/NEXTEL i550plus CELLPHONE  
MOTOROLA/NEXTEL i700 CELLPHONE  
MOTOROLA/NEXTEL i1000plus CELLPHONE  
MOTOROLA/NEXTEL i2000 CELLPHONE

THE TOP ASSEMBLY P/N BELOW INCLUDES BOTH HANDS-FREE KIT AND CABLE:  
JPS P/N 5961-281184 (i550, i700) - DISCONTINUED.  
JPS P/N 5961-281185 (i1000, i2000).

Designed By:	CTS	<b>Raytheon JPS Communications</b> Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, ACU-T TO NEXTEL i550 CELLPHONE		
Checked By:	JAC	Size A	Document Number <b>5961-281169-00</b>	Rev B1
		Issued Date	NOVEMBER 11, 2003	Sheet <u>1</u> of <u>1</u>